

New combinations in *Dendrophorbium* and *Pentacalia* (Senecioneae - Asteraceae) from Peru

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Abstract

Eight new combinations in Peruvian taxa of *Dendrophorbium* and *Pentacalia* are made.

Resumen

Se hacen ocho nuevas combinaciones para especies peruanas en los generos *Dendrophorbium* y *Pentacalia*.

Introduction

Generic circumscription in Peruvian Senecioneae (Asteraceae) has been recently modified (ROBINSON & CUATRECASAS 1992, 1993; BELTRAN & DE MERA 1997, 1998; NORDENSTAM & PRUSKI 1995; DILLON & SAGÁSTEGUI 1996, 1999). Due to the splitting of the core genus *Senecio* into several segregates (JEFFREY 1992, a.o.), such as *Dendrophorbium*, *Aequatorium*, and *Pentacalia*, a few Peruvian species in need of transfer out of *Senecio* are here transferred to the correct segregate genera.

The Senecioneae tribe in Peru includes approximately 16 genera and 326 species, with a high percentage of endemic species with a restricted distribution (VISION & DILLON 1996). A tribal revision of Peruvian Senecioneae is currently being prepared by DILLON & SAGÁSTEGUI (in prep.).

Study of the species of the Senecioneae from Peru was carried out in different Herbaria such as US, F, USM, MICH, MO, and following to the classification of JEFFREY (1992) it is necessary to transfer the following species of *Senecio* to *Dendrophorbium* and to provide the correct name to *Pentacalia balsasana* according to ICBN.

New Combinations

- Dendrophorbium argutidentatum*** (CUATREC.) H. BELTRAN, comb. nov.
 Basionym: *Senecio argutidentatus* CUATREC., Collect. Bot. (Barcelona) 3: 281. 1953. Typus: Peru; Cuzco, Urubamba, C. VARGAS 2916A (F).
- Dendrophorbium cosnipatense*** (CABRERA) H. BELTRAN, comb. nov.
 Basionym: *Senecio cosnipatense* CABRERA, Notas Mus. La Plata, Bot. 18: 236. 1955. Typus: Peru; Cuzco, Paucartambo, O. VELARDE 1451 (LP).
- Dendrophorbium goodspeedii*** (CUATREC.) H. BELTRAN, comb. nov.
 Basionym: *Senecio goodspeedii* CUATREC., Fieldiana, Bot. 27(2): 51. 1951. Typus: Peru; Huanuco, Pillao, A. TUESTA DÍAZ & F. WOYTKOWSKI 34097 (F).
- Dendrophorbium llewelynii*** (CUATREC.) H. BELTRAN, comb. nov.
 Basionym: *Senecio llewelynii* CUATREC., Fieldiana, Bot. 27(2): 45. 1951. Typus: Peru; Amazonas, Chachapoyas, L. WILLIAMS 7589 (F).
- Dendrophorbium trigynum*** (CUATREC.) H. BELTRAN, comb. nov.
 Basionym: *Senecio trigynus* CUATREC., Brittonia 8: 189. 1956. Typus: Peru; Cuzco, CL. GAY 2051 (P).
- Dendrophorbium vanillodorum*** (CABRERA) H. BELTRAN, comb. nov.
 Basionym: *Senecio vanillodorus* CABRERA, Notas Mus. La Plata, Bot. 18: 238. 1955. Typus: Peru; Cajamarca, Celendín, C. A. RIDOUTT 512 (LP).
- Dendrophorbium vargasii*** (CABRERA) H. BELTRAN, comb. nov.
 Basionym: *Senecio vargasii* CABRERA, Notas Mus. La Plata, Bot. 9: 225. 1944. Typus: Peru; Cuzco, La Convención, C. VARGAS 3481 (Herb. Cabrera).
- Pentacalia petiolincrassata*** (CABRERA & ZARDINI) H. BELTRAN, comb. nov.
 Basionym: *Senecio petiolincrassatus* CABRERA & ZARDINI, Bol. Soc. Argent. Bot. 16: 383-385. Fig. 4. 1975. Typus: Peru; Cajamarca, Hualgayoc Tahona, R. FERREYRA 8518 (LP). *Pentacalia balsasana* CUATREC. & H. ROBINSON, Novon 3(3): 293. 1993. Typus: Peru; Cajamarca, Celendín, Canyon Balsas, HUTCHINSON & WRIGHT 5212 (US, F, USM, MICH, UC).

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References

- BELTRAN, H. & G. DE MERA 1997. *Senecio icaensis* sp. nov. (Asteraceae) un nuevo endemismo de las lomas costaneras del Peru. *Anales Jard. Bot. Madrid* 55(1): 168–170.
- BELTRAN, H. & G. DE MERA 1998. *Senecio larahuinensis* sp. nov. (Asteraceae) una nueva especie de los andes peruanos. *Anales Jard. Bot. Madrid* 56(1): 168–169.
- DILLON, M. & A. SAGÁSTEGUI 1996. Revision of the dioecious genus *Chersodoma* PHIL. (Senecioneae, Asteraceae), including a new species and status change. *Brittonia* 48(4) : 582–604.
- DILLON, M. & A. SAGÁSTEGUI 1999. *Caxamarca*, New Monotypic Genus of Senecioneae (Asteraceae) from northern Peru. *Novon* 9: 156–161.
- JEFFREY, C. 1992. The tribe Senecioneae (Compositae) in the Mascarene islands with an annotated world check-list of the genera of the tribe. Notes on Compositae VI. *Kew Bull.* 47(1) : 49–109.
- NORDENSTAM, B. & J. F. PRUSKI 1995. Additions to *Dorobaea* and *Talamancalia* (Compositae-Senecioneae). *Comp. Newsl.* 27: 31–42.
- ROBINSON, H. & J. CUATRECASAS 1992. Additions to *Aequatorium* and *Gynoxys* (Asteraceae: Senecioneae) in Bolivia, Ecuador and Peru. *Novon* 2: 411–416.
- ROBINSON, H. & J. CUATRECASAS 1993. New species of *Pentacalia* (Senecioneae: Asteraceae) from Ecuador, Peru, and Bolivia. *Novon* 3: 284–301.
- VISION, T. J. & M. DILLON 1996. Sinopsis de *Senecio* L. (Senecioneae, Asteraceae) para el Peru. *Arnaldoa* 4(1): 23–46.